

Use Case – Create MMS Day Ahead Model COWM.P01RunDAMarket_UC_CreateMMSDAM_V0.4

Name: Create the MMS Day Ahead Model

Summary:

Create the MMS Day Ahead Model using the NMMS software and the selected NOMCRs as required. The output is a CIM/XML file that is generated per the CPSM specification plus the ERCOT CIM extensions. The Contingency file and the Settlement file should also be packaged and sent with this model.

Acronyms:

ERCOT	Electric Reliability Council of Texas
MMS	Market Management System
MP	Market Participant
NMMS	Network Model Management System
NOMCR	Network Operations Model Change Request (AKA: Project Files)
MC	ERCOT Model Coordinator
SAMR	Special Action Model Request
TSP	Transmission Service Provider
DAM	Day Ahead Model

Actor(s):

Name	Role description
MC at ERCOT	Selects the Approved and Scheduled NOMCRs to be included in the Day Ahead Market and creates the Day Ahead Model for use in the MMS. Attaches the supporting files as required (Contingency file, Settlement File, etc.).

Participating Systems:

System	Services or information provided
Market Management System (MMS)	Receives the Model after the Case Builder completes the Day Ahead Model build
NMMS at ERCOT	<p>The MC uses the Case Builder with the NMMS to build the Day Ahead Model using the selected NOMCR's. The supporting files containing the Contingency definitions and the Settlement Points are also sent to the MMS.</p> <p>The Day Ahead Model is generated based on the CPSM format and delivered in a CIM/XML RDF file. The DAM build contains the required ERCOT extensions to the CIM schema; which are included within the generated Model file.</p>

Pre-conditions:

NONE

Design Considerations:

- None

Known assumptions, limitations, constraints, or variations that may affect this use case:

- There will be a single Day Ahead Model generated each day.
- The time for this generation still needs to be determined.
- Only posted approved NOMCRs will be included in the DAM
- The changes contained in the model may not include all changes for that day since Interim Update Changes may be received after the DAM has been generated and distributed.

Normal Sequence:

Use Case Step	Description	From - To	Information Content
Step 1	Based on inputs from the MC, the NMMS software inserts the selected NOMCRs into the DAM	(from) NMMS to (to) NMMS	
Step 2	NMMS software creates the CPSM model file with specific ERCOT CIM extensions and sends the CIM/XML RDF file, which represents the DAM to the MMS	(from) NMMS to (to) MMS	The model is in the CPSM format and contains ERCOT CIM extensions. They are delivered in CIM/XML RDF. The package should also contain the supporting files such as Contingency files and Settlement Files.

Exceptions / Alternate Sequences:

NONE

Post-conditions:

NONE

References:

Use Cases referenced by this use case, or other documentation that clarifies the requirements or activities described.

- COWN.P01RunDAMarket_UC_CreateSettlementFile
- COPS.P01.ModelManageData_UC_ProcessContingencyDefinition

The following Standards and other documents are referenced by this case:

- IEC 61970-452-Rev 2 CIM Network Application Model Exchange Specification (NERC CPSM Specification)
- IEC 61970-552-4, CIM/XML Model Exchange Format Rev6 20050505 Standard (Incremental Change Specification)
- IEC 61970-501, CIM RDF Schema
- ERCOT Nodal Protocols
- ERCOT NMMS Requirements

Issues:

ID	Description	Status
1.	Description of the ERCOT CIM extensions to be included in the DAM	In Work

Revision History:

No	Date	Author	Description
0		J. Winkel	Initial Version
1		J. Winkel	Updated based on discussions with Margaret
2	8/26/06	M. Goodrich	Review changes and made additional revisions
3	9/10/06	M. Goodrich	Added Comments from Crews and Moseley
4	9/12/06	M. Goodrich	Added edits from NMG